

**Figure 1A**

```

148      178      208      238      268      298
FRI-1  . ALLVFLDIIEWTTQETFPKYLHYDPETGRQLLCDKCAPGTYLKQHCTVRRKTL CVPCPD
SW:TNR2_HUMAN  HALPAQVAFTPYAPEPGSTCRLREYYDQTAQMCCSKCSPGOHAKVFCTKTSDTVCDSCED
30      40      50      60      70      80
328
FRI-1  YSYTDSWHTS
: ||: |:
SW:TNR2_HUMAN  STYTQLWNWVPECLSCGSRCSDDQVETQACTREQNRICTCRPGWYCALSKQEGCRLCAPL
90      100     110     120     130     140

```

**1B**

```

FRI-1      69 YLHYDPETGRQLLCDKCAPGTYLKQHC.TVRRKTL CV.PCPDY.SYTD SW
TNR profile 6 YHYDQNGRMCEECHMCQPGHFLVKHCKQPKRDTVCHKPCEPGVTYTTDDW
FRI-1      116 H
TNR profile 56 H
Z Score = 8.29

```

**BEST AVAILABLE COPY**

Figure 1C

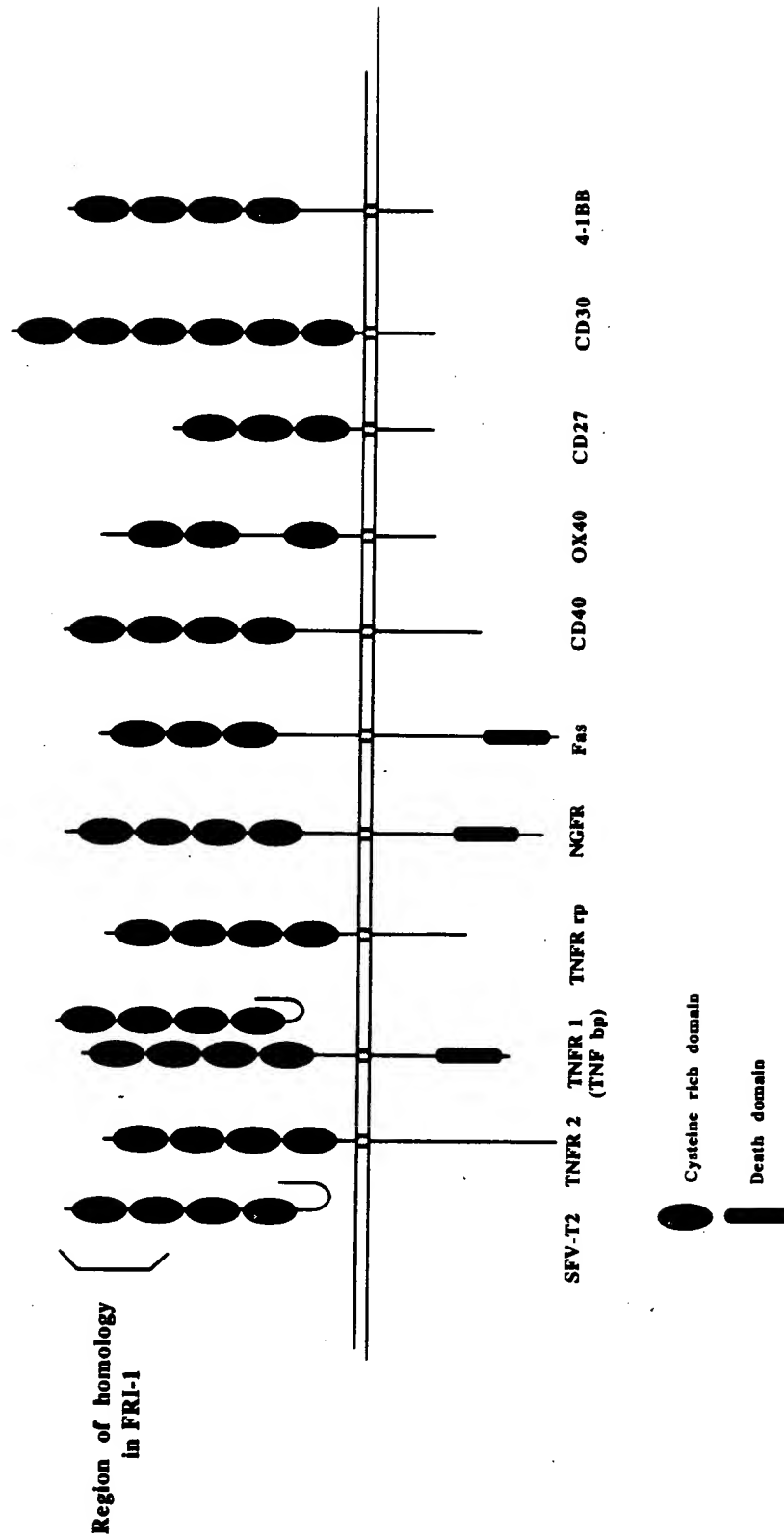


Figure 2A

JG TAG  
 SP  
 2B

10 30 50  
 ATCAAAGGCAGGGCATACTTCTGTTGCCAGACCTTATATAAACGTCATGTTGCCTG  
 70 90 110  
 GGCAGCAGAGAAGCACCTAGCACTGGCCAGCGGCTGCCGCTGAGGTTTCCAGAGGACC  
 130 150 170  
 ACAATGAACAAGTGGCTGTGCTGTGCACTCTGTTGTTCTGGACATCATGAAATGGACA  
 M N K W L C C A L L V F L D F E W T  
 190 210 230  
 ACCCAGGAAACCTTCTCCAAAATCTTGCATTATGACCCAGAAACCGGACGTCAGCTC  
 T Q E T F P P K Y L H Y D P E T G R Q L  
 250 270 290  
 TTGTGTGACAAATGTGCTCCTGGCACCTACCTAAAACAGCACTGCACAGTCAGGAGGAAG  
 L C D K C A P G T Y L K Q H C T V R R K  
 310 330 350  
 ACACGTGTGTCTCCCTTGCCCTGACTACTCTTATACAGACAGCTGGCACACGAGTGATGAA  
 T L C V P C P D Y S Y T D S W H T S D E  
 370 390 410  
 TGCCTGTACTGCAGCCCCGTGTGCAAGAACTGCAGACCGTGAACAGGAGTGCAACCGC  
 C V Y C S P V C K E L Q T V K Q E C M R  
 430 450 470  
 ACCCACAACCGAGTGTGCGAATGTGAGGAAGGGCGCTACCTGGAGCTCGAATTCGTCTG  
 T H N R V C E C E E G R Y L E L E F C L  
 490 510 530  
 AAGCACCGGAGCTGTCCCCAGGCTTGGGTGTGCTGCAGGCTGGGACCCAGAGCGAAAC  
 K H R S C P P G L G V L Q A G T P E R N  
 550 570 590  
 ACGGTTTGCAAAAGATGTCCGGATGGGTTCTTCTCAGGTGAGACGTCATCGAAAGCACCC  
 T V C K R C P D G F F S G E T S S K A P  
 610 630 650  
 TGTAGGAACACACCACTGCAGCTCACTTGGCCTCCTGCTAATTCAGAAAGGAAATGCA  
 C R K H T M C S S L G L L L I Q K G M A  
 670 690 710  
 ACACATGACAATGTATGTTCGGAAACAGAGAAGCAACTAAAATTTGGGAATAGATGTC  
 T H D N V C S G N R E A T Q N C G I D V  
 730 750 770  
 ACCCTGTGCGAAGAGGCATTTCTCAGGTTTGTGTGCTGCTACCAAGATTATACCGAATGG  
 T L C E E A F F R F A V P T K I I P N W  
 790 810 830  
 CTGAGTGTCTGTTGGTGGACAGTTTGCCTGGGACCAAGTGAATGCAGAGAGTGTAGAGAGG  
 L S V L V D S L P G T K V N A E S V E R  
 850 870 890  
 ATAAACCGGAGACACAGCTCGCAAGAGCAAACTTTCCAGCTACTTAAGCTGTGGAAGCAT  
 I K R R H S S Q E Q T F Q L L K L W K H  
 910 930 950  
 CAAACAGAGACAGGAAATGGTGAAGAAGATCATCCAAGACATTCACCTCTGTGAAAGC  
 Q N R D Q E M V K K I I Q D I D L C E S  
 970 990 1010  
 AGTGTGCAACGGCATATCGGCCACGCGAACCTCACCACAGAGCAGCTCCGATCTTGATG  
 S V Q R H I G H A M L T T E Q L R I L M  
 1030 1050 1070  
 GAGAGCTTGCCTGGGAAGAAGATCAGCCACAGAGATTGAGAGAAGAGAAAGACCTGC  
 E S L P G K K I S P D E I E R T R K T C  
 1090 1110 1130  
 AAACCCAGCGAGCAGCTCCTGAAGCTACTGAGCTTGTGGAGGATCAAAAATGGAGACCAA  
 K P S E Q L L K L L S L W R I K N G D Q  
 1150 1170 1190  
 GACACCTTGAAGGGCCTGATGTACGCACTCAAGCACTTGAAGCATACCACTTTCCAAA  
 D T L K G L M Y A L K H L K A Y H F P K  
 1210 1230 1250  
 ACCGTCACCCACAGTCTGAGGAAGACCATCAGGTTCTTGCACAGCTTCACCATGTACCGA  
 T V T H S L R K T I R F L H S P T M Y R  
 1270 1290 1310  
 TTGTATCAGAAACTCTTTCTAGAAATGATAGGGAATCAGGTTCAATCAGTGAAGATAAGC  
 L Y Q K L F L E M I G N Q V Q S V K I S  
 1330 1350 1370  
 TGCTTATAGTTAGGAATGGTCACTGGGCTGTTCCTTCAGGATGGGCCAACACTGATGGAG  
 C L  
 1390 1410 1430  
 CAGATGGCTGCTTCTCCGGCTCTTGAATGGCAGTTGATTCCTTCTCATCAGTTGGTGG  
 1450 1470 1490  
 GAATGAAGATCTCCAGCCCAACACACACTGGGGAGTCTGAGTCAGGAGAGTGAGGCA  
 1510 1530 1550  
 GGCTATTTGATAATTTGTGCAAAAGCTGCCAGGTGTACACCTAGAAAAGTCAAGCACCCCTGAG  
 1570 1590 1610  
 AAAGAGGATATTTTTATAACCTCAAAACATAGGCCCTTTCTTCTCTCCTTATGGATGAG  
 1630 1650 1670  
 TACTCAGAAGGCTTCTACTATCTTCTGTGTATCCCTAGATGAAGGCTCTTTTATTTAT  
 1690 1710 1730  
 TTTTATTTCTTTTTCGGAGCTGGGGACCGAACCCAGGGCTTTCGGCTTTCGAGGCAA  
 1750 1770 1790  
 GTGCTCTACCACTGAGCTAAATCTCCAACCCCTGAAGGCCCTTTCTTCTGCTCTGAT  
 1810 1830 1850  
 AGTCTATGACATTTCTTTTCTACAATTCGTATCAGGTGCACGAGCCTTATCCCATTTGT  
 1870 1890 1910  
 AGGTTTCTAGGCAAGTTGACCGTTAGCTATTTTCTCCTCTGAAGATTGATTCGAGTTGC  
 1930 1950 1970  
 AGACTTGGCTAGACAAGCAGGGGTAGGTTATGGTAGTTTATTTAACAGACTGCCACCAGG  
 1990 2010 2030  
 AGTCCAGTGTTCCTGTGTTCTCTGTAGTTGTACCTAAGCTGACTCCAAGTACATTTAGTA  
 2050 2070 2090  
 TGAAAAATAATCAACAAATTTTATTCCTTCTATCAACATTGGCTAGCTTTGTTTCAGGGC  
 2110 2130 2150  
 ACTAAAAGAACTACTATATGGAGAAAGAAATGATATTGCCCCCAACGTTCAACAAACCA  
 2170 2190 2210  
 ATAGTTTATCCAGCTGTATGCCTGGTTCACTGCTACTGACTATGCGCCCTCTTATTAC  
 2230 2250 2270  
 TGCAATGCAGTAATCAACTGGAATAGTAATAATAATAGAAATAAAATCTAGACTCC  
 2290 2310 2330  
 ATTGGATCTCTCTGAATATGGGAATATCTAACTTAAGAAGCTTTGAGATTTCAGTTGTGT  
 2350 2370 2390  
 TAAAGGCTTTTATTAAGAAAGCTGATGCTCTCTGTAAAAAGTTACTAATATATCTGTAAGA  
 2410 2430  
 CTATTACAGTATTGCTATTTATATCCATCCAG

**FIGURE 2C**

fas.frg	M	L	G	I	W	T	-	-	-	L	L	P	L	V	L	T	S	-	V	A	R	L	S	S	K	S	V	N	A	Q	V	T	D	I	N	S	K	G	E	L	R	K	T	V	T	V	E	45					
tnfr1.frg	-	M	G	L	S	T	V	P	D	L	L	P	L	V	L	L	E	L	V	G	I	Y	P	S	G	V	I	G	L	V	P	H	-	-	-	-	L	G	D	R	E	K	R	D	S	N	V	E	44				
sfv-t2.frg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	L	R	L	I	A	L	L	V	C	V	V	V	V	Y	G	D	D	V	P	Y	S	S	N	Q	23			
tnfr2.frg	-	-	-	-	-	-	-	-	-	-	M	A	P	V	A	V	W	A	A	L	A	V	G	L	E	L	W	A	A	A	H	A	L	P	A	Q	V	A	E	T	P	Y	A	P	E	P	G	S	T	39			
cd40.frg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	V	S	L	P	R	L	C	A	L	W	G	C	L	L	T	A	V	H	L	G	Q	V	T	C	S	D	28		
osteo.frg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	N	K	R	W	L	C	C	A	L	L	L	V	F	L	D	I	E	W	T	T	Q	E	T	F	P	26		
ngfr.frg	-	-	-	-	-	-	-	-	-	-	-	-	-	M	G	A	G	A	T	G	R	A	M	D	G	P	R	L	L	L	L	L	L	L	L	L	G	V	S	L	G	-	G	A	K	E	A	C	P	34			
ox40.frg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	Y	V	W	V	Q	Q	P	T	A	F	L	L	L	L	G	L	S	L	G	V	T	V	K	L	N	C	V	K	28
4lbb.frg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	G	N	N	C	Y	N	V	V	V	I	V	L	L	L	V	G	C	E	K	V	G	A	V	Q	25			

[illegible]

fas.frg	H	F	-	-	-	S	S	K	C	R	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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tnfr1.frg	N	C	S	L	C	L	N	G	-	-	-	T	V	H	S	C	Q	R	T	K	Q	N	T	V	C	T	C	H	A	G	F	F	F	L	R	E	N	E	C	V	S	C	R	I	C	C	A	P	L	T	R	K	C	C	191
stf-t2.frg	-	-	-	-	-	P	C	T	S	G	H	L	S	E	S	C	Q	D	R	T	H	D	R	V	C	T	C	H	A	G	F	F	F	L	R	E	N	E	C	V	S	C	R	I	C	C	A	P	L	T	R	K	C	C	129
tnfr2.frg	-	-	-	-	-	R	C	S	S	D	O	V	E	T	Q	A	C	T	R	E	Q	N	R	I	C	T	C	K	R	P	G	W	Y	C	A	L	S	K	Q	E	G	C	R	L	C	C	A	P	L	T	R	K	C	C	143
cd40.frg	-	-	-	-	-	N	Q	G	L	O	T	V	K	K	E	G	C	T	A	E	S	D	N	T	V	C	T	C	K	E	G	Q	H	C	T	S	K	D	C	E	-	-	-	A	C	C	A	Q	H	T	R	P	C	C	125
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fv-t2.frg	P	A	G	Y	G	V	S	-	G	H	T	R	A	G	S	D	T	L	C	E	K	C	P	P	H	T	Y	S	D	S	L	S	P	T	E	R	C	G	T	S	F	N	Y	I	S	V	G	F	N	L	Y	178					
tnfr2.frg	R	P	G	F	G	V	M	E	M	A	T	E	T	S	D	V	V	C	K	P	C	A	P	G	G	T	F	S	N	T	S	S	S	T	D	I	C	R	P	H	Q	I	C	N	V	V	A	I	P	G	N	193					
cd40.frg	I	P	G	F	G	V	M	E	M	A	T	E	T	S	D	V	V	C	H	R	C	C	P	V	G	G	F	F	S	N	Q	E	T	S	S	K	A	P	C	R	K	H	T	C	T	V	C	E	S	D	K	N	L	E	V	L	175
osteo.frg	P	P	G	L	G	V	L	Q	A	G	T	P	E	R	N	T	V	C	C	P	D	G	G	F	F	S	N	G	E	T	S	S	K	A	P	C	R	K	H	T	C	T	V	C	E	S	D	T	E	R	Q	L	I	R	174		
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ox40.frg	-	-	-	-	-	-	-	-	-	-	-	K	L	G	V	D	C	V	P	C	P	P	G	G	H	F	S	P	G	S	N	-	-	Q	A	C	K	R	P	W	T	N	C	S	L	D	G	R	S	V	L	152					
41bb.frg	R	P	G	Q	E	L	T	R	Q	G	-	-	-	-	-	-	-	C	K	T	C	S	L	G	T	F	N	D	Q	-	N	G	T	G	V	C	R	P	W	T	N	C	S	L	D	G	R	S	V	L	147						

fasc.frg	V	W	V	-	-	-	-	K	R	K	E	V	Q	K	T	C	R	K	H	R	K	E	N	Q	G	S	H	E	S	P	T	L	N	P	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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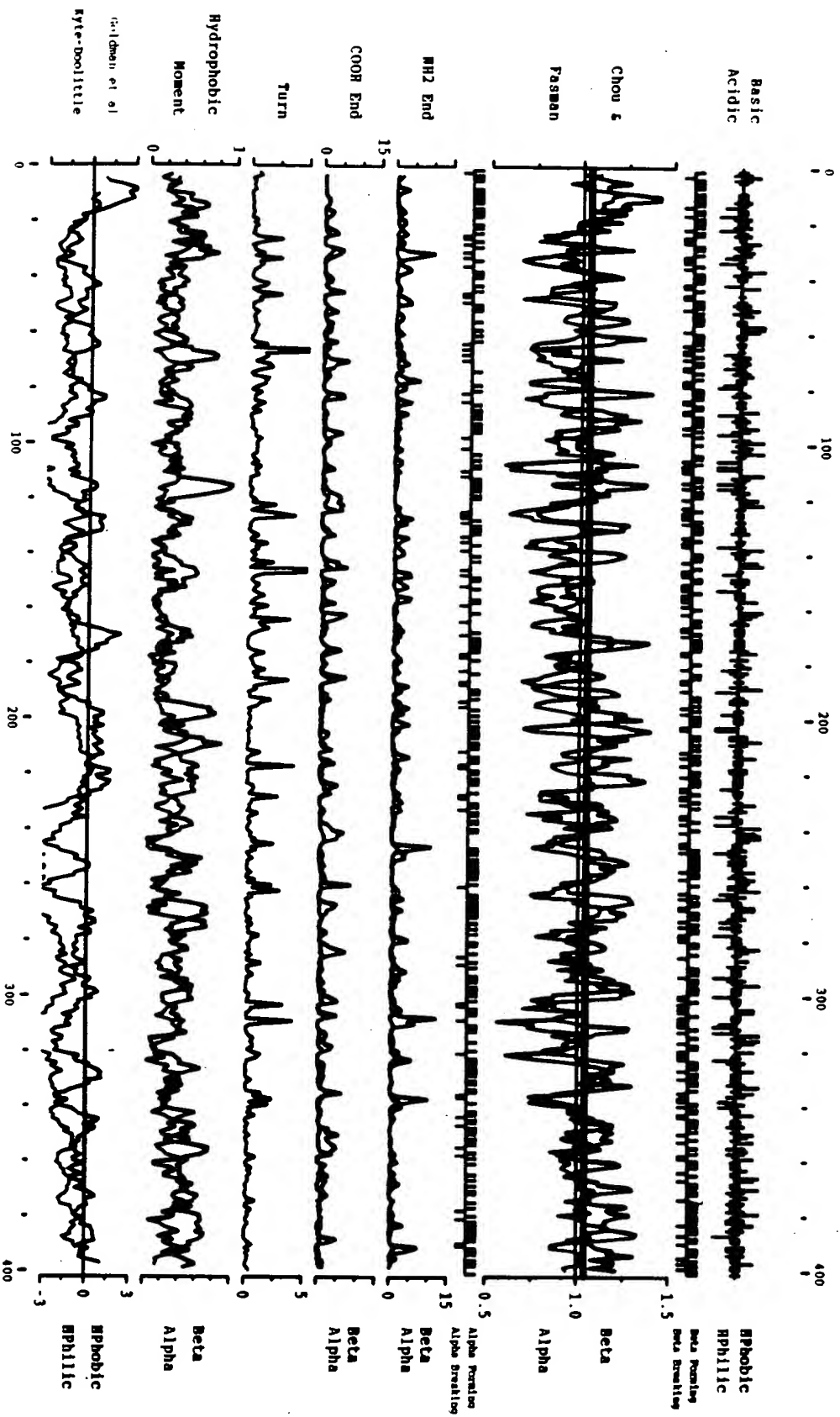
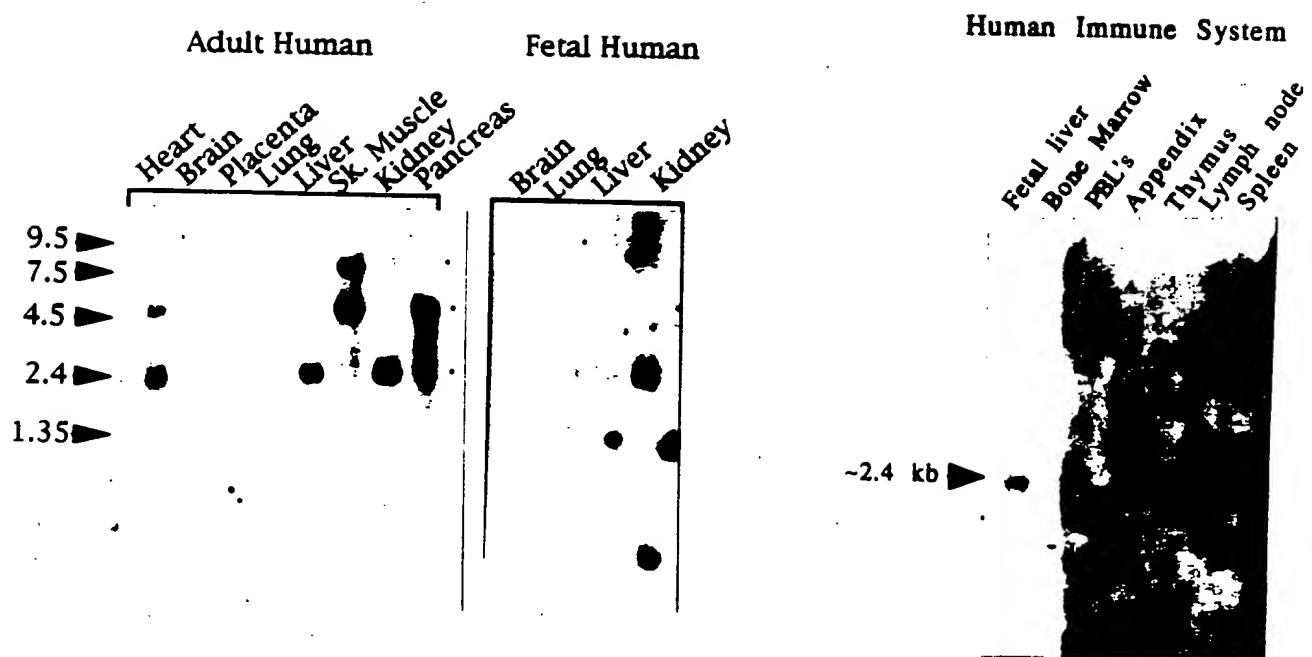
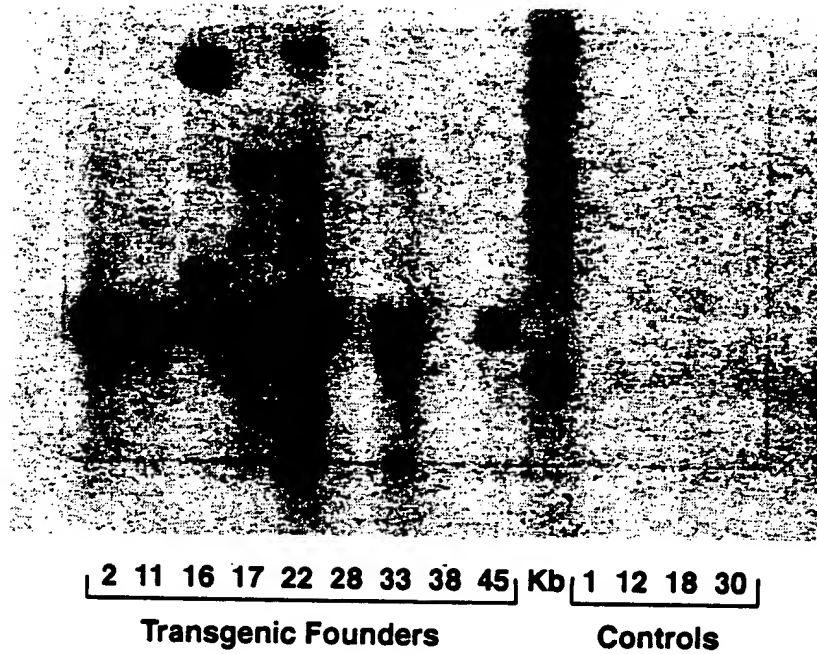


FIGURE 4



**FIGURE 5**



**FIGURE 5**

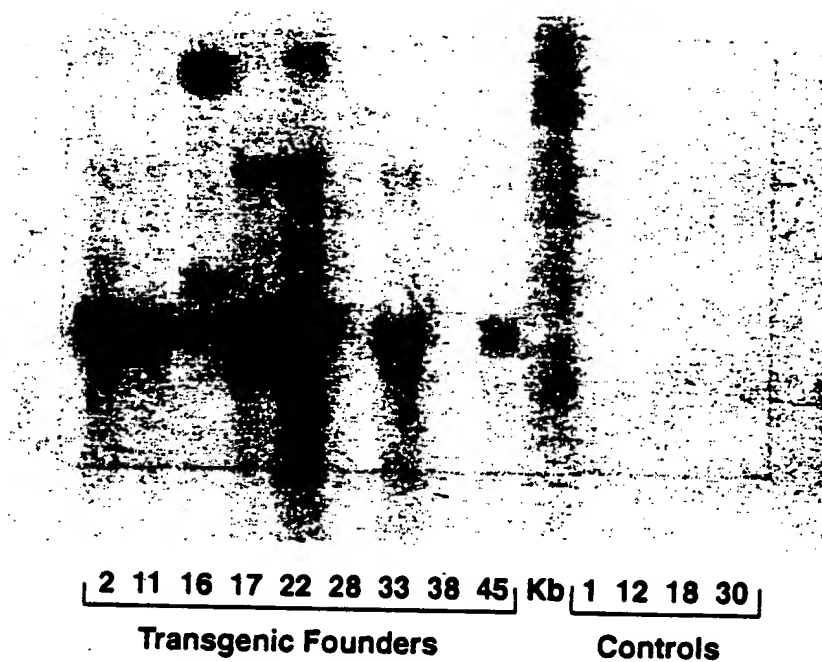




FIGURE 6

PANEL A

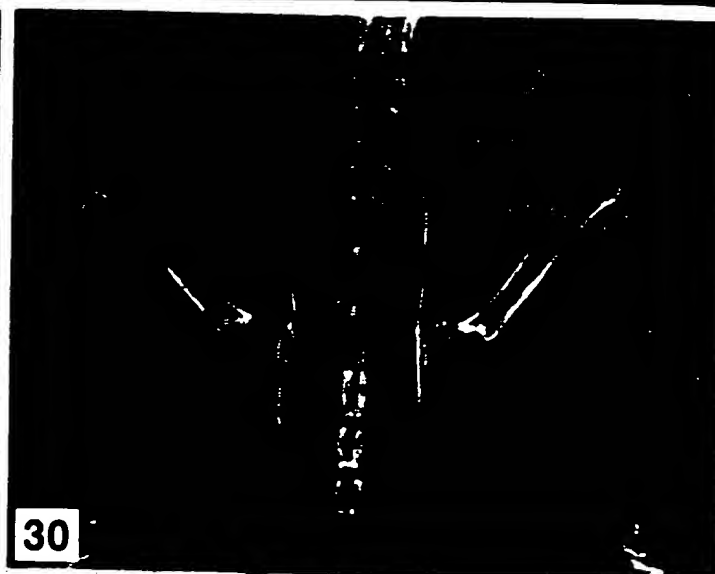
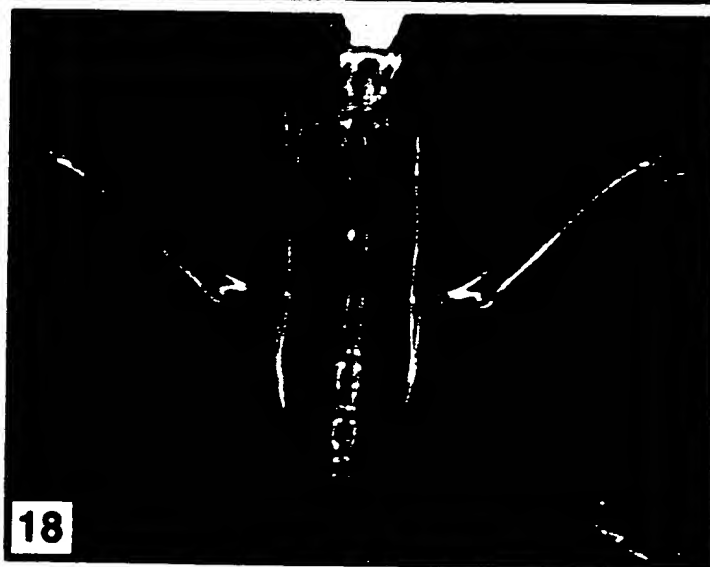
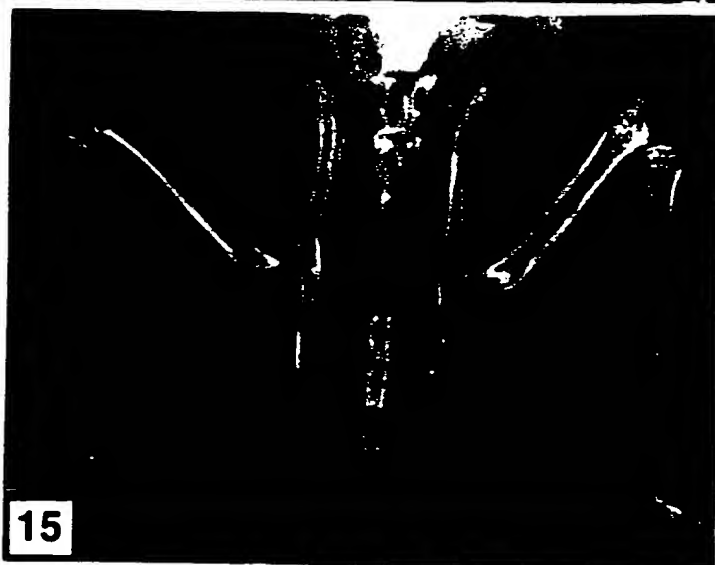


FIGURE 6

PANEL B

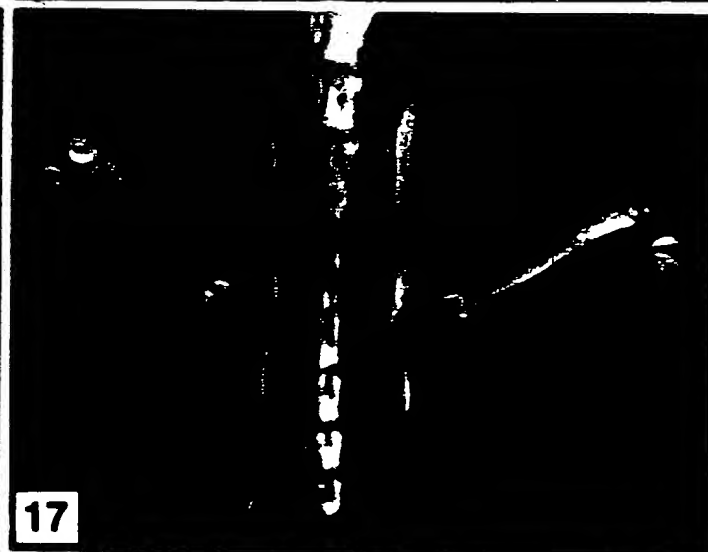
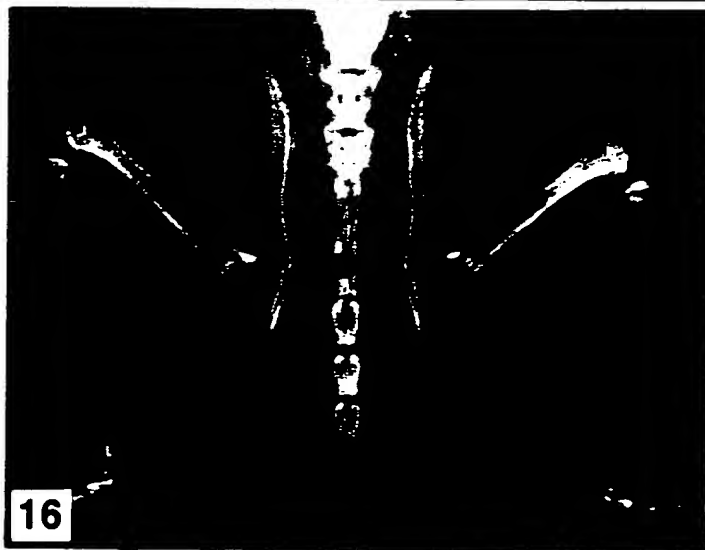
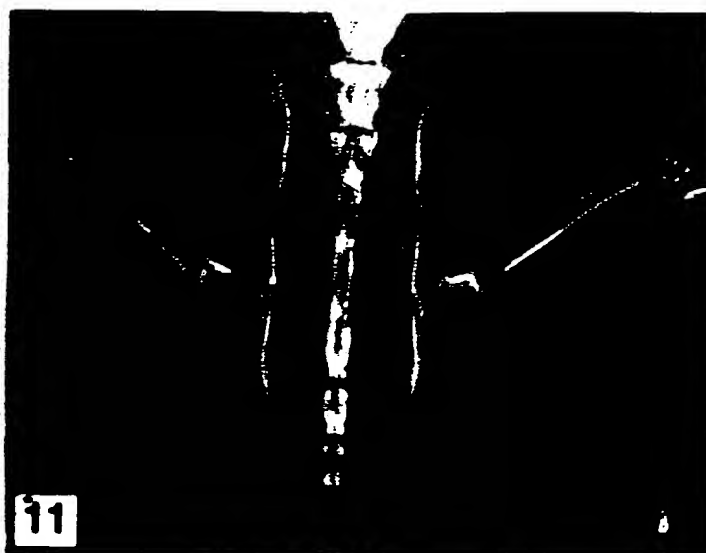
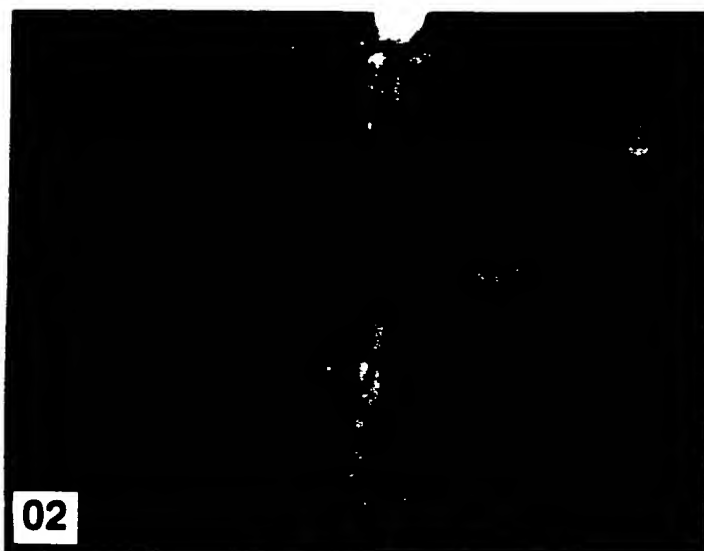


FIGURE 7

PLATE A

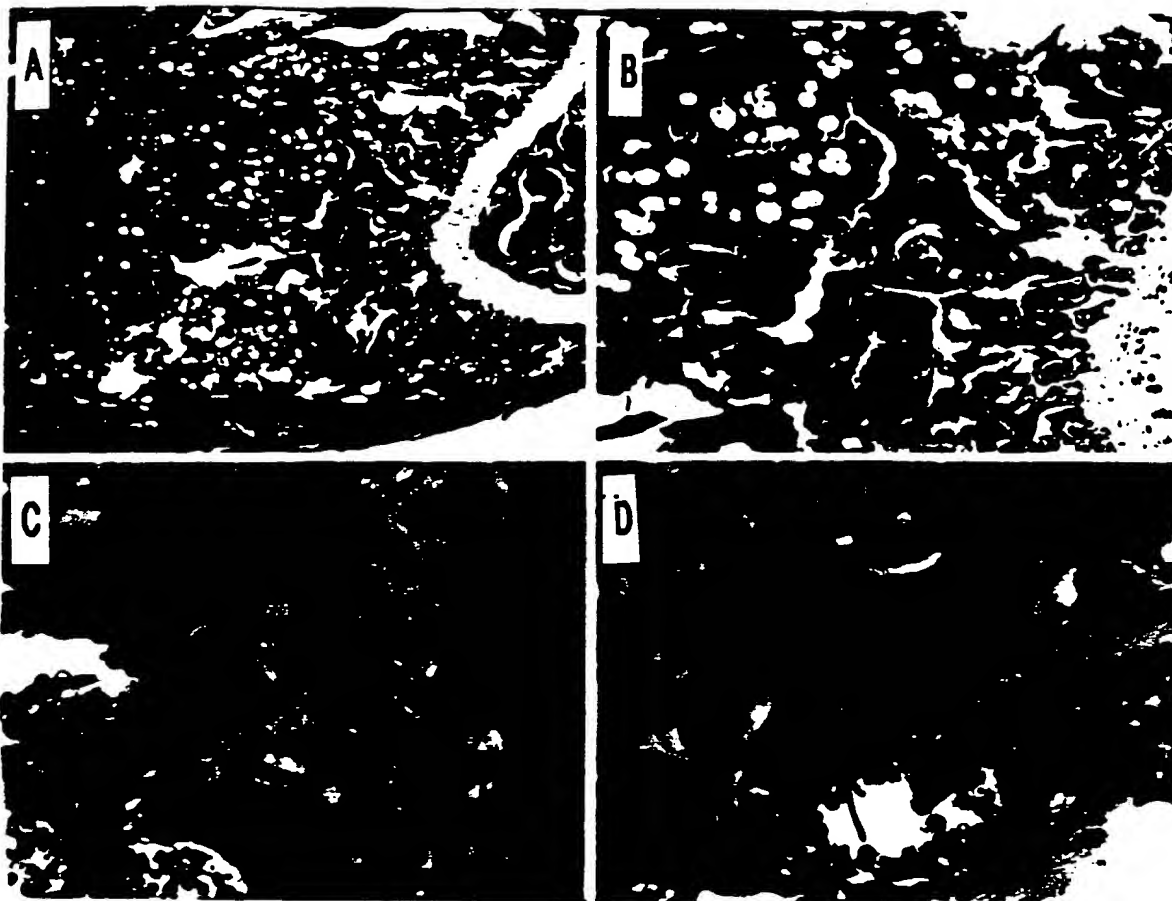


PLATE B

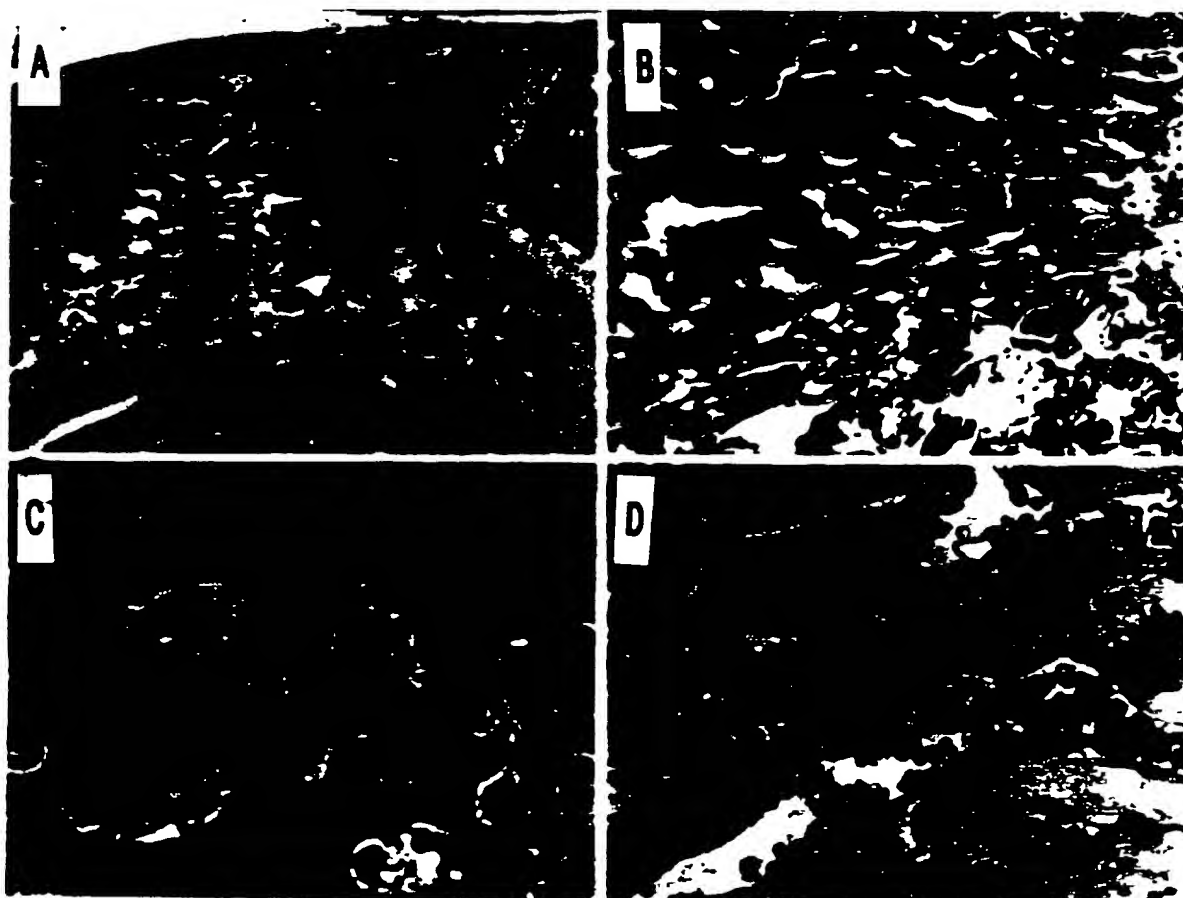


FIGURE 8

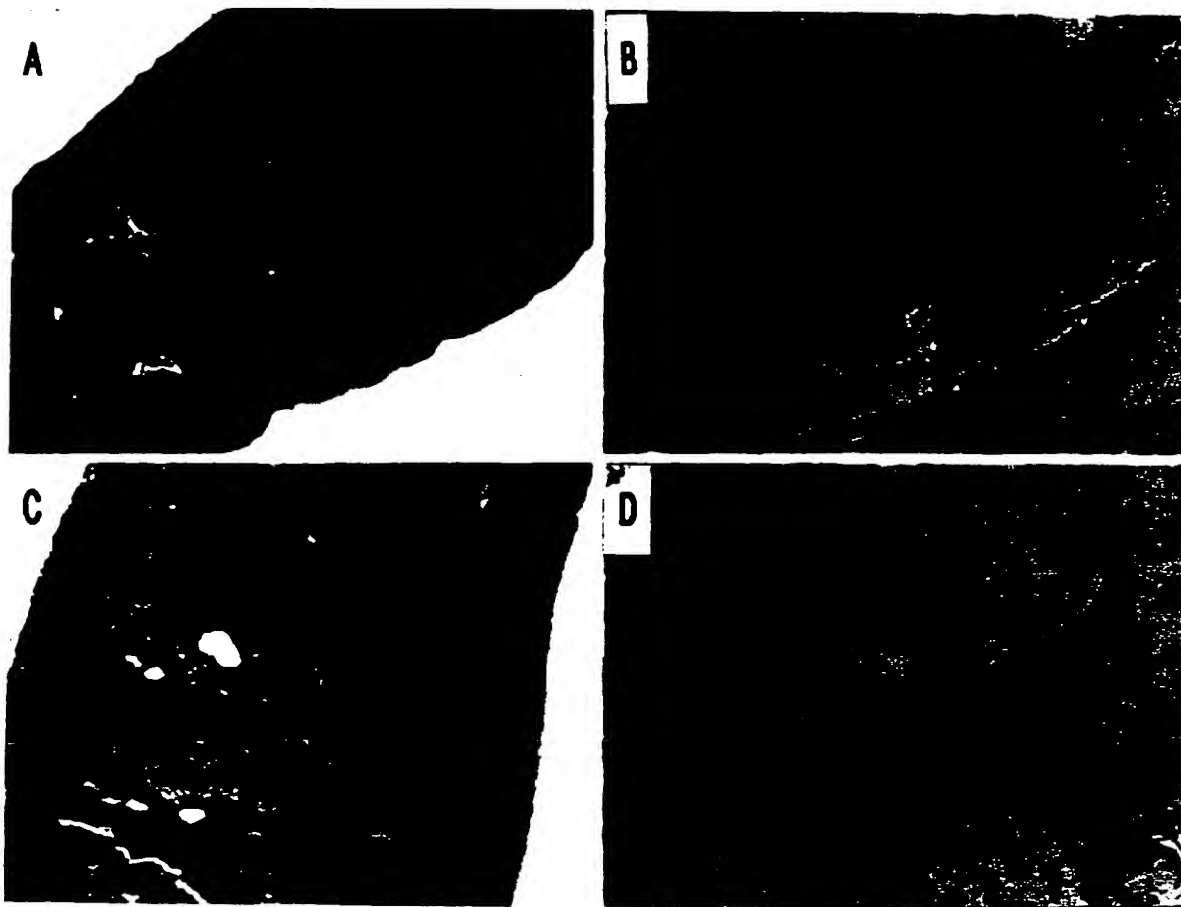


FIGURE 9A

```

10          30          50
CCTTATATAARACGTCATGATTGCCTGGGCTGCAGAGACGCACCTAGCACTGACCCAGCG
70          90          110
GCTGCCTCCTGAGGTTTCCCGAGGACCACAATGAACAAGTGGCTGTGCTGCGCACTCCTG
130          150          170
GTGCTCCTGGACATCATTGAATGGACAACCCAGGAAACCTTCCTCCAAAGTACTTGCAT
190          210          230
TATGACCCAGAACTGGTCATCAGCTCCTGTGTGACAAATGTGCTCCTGGCACCTACCTA
250          270          290
AAACAGCACTGCACAGTGAAGGAGGAGACATTGTGTGTCCTTGGCCCTGACCACTCTTAT
310          330          350
ACGGACAGCTGGCACACCACTGATGAGTGTGTATTGACAGCCAGTGTGCAAGGAACTG
370          390          410
CAGTCCGTGAAGCAGGAGTGCAACCGCACCCACAACCGAGTGTGTGAGTGTGAGGAAGGG
430          450          470
CGTTACCTGGAGATCGAATTCTGCTTGAAGCAGCGAGCTGTCCCGCGGGCTCCGGCGTG
490          510          530
GTGCAAGCTGGAACCCAGAGCGAAACACAGTTTGCAAAAAATGTCCAGATGGGTTCTTC
550          570          590
TCAGGTGAGACTTCATCGAAAGCACCTGTATAAAACACACGAACTGCAGCACATTTGGC
610          630          650
CTCCTGCTAAATCAGAAAGGAAATGCAACACATGACAACGTGTGTTCGGGAAACAGAGAA
670          690          710
GCCACGCAAAAGTGTGAATAGATGTCACCTGTGTGAAGAGCGCTTCTTCAGGTTTGTCT
730          750          770
GTTCCTACCAAGATTATACCAAAATGGCTGAGTGTTTTGGTGGACAGTTTGCCTGGGACC
790          810          830
AAAGTGAATGCCGAGAGTGTAGAGAGGATAAACCGGAGACACAGCTCACAGAGCAAAACC
850          870          890
TTCCAGCTGTGAAGCTGTGGAACATCAAAACAGAGACCAGGAAATGGTGAAGAAGATC
910          930          950
ATCCAAGACATTGACCTCTGTGAAAGCAGCGTGCAGCGGCATCTCGGCCACTCGAACCTC
970          990          1010
ACCACAGAGCAGCTTCTTGCCTTGATGGAGAGCCTGCCTGGGAAGAAGATCAGCCAGAA
1030          1050          1070
GAGATTGAGAGAACGAGAAAGACCTGCAAAATCGAGCGAGCAGCTCTGAAGCTACTCAGT
1090          1110          1130
TTATGGAGGATCAAAAATGGTGACCAAGACACCTTGAAGGGCCTGATGTATGCCCTCAAG
1150          1170          1190
CACTTGAACATCCCACTTTCCCAAACTGTCAACCCACAGTCTGAGGAAGACCATGAGG
1210          1230          1250
TTCTGCACAGCTTCACAATGTACAGACTGTATCAGAAGCTCTTTTGTAGAAATGATAGGG
1270          1290          1310
AATCAGGTTCAATCCGTGAAAAATAAGCTGCTTATAACTAGGAATGGTCACTGGGCTGTTT
1330          1350          1370
N Q V Q S V K I S C L
CTTCA

```

FIGURE 9B

```

10      30      50
GTATATATAACGTGATGAGCGTACGGGTCCGGAGACGCACCGGAGCGCTCGCCCAGCCGC
70      90      110
CGYCTCCAAGCCCCCTGAGGTTTCGGGGACCACAAATGAACAAGTTGCTGTGCTGCGCGCT
130      150      170
CGTGTTCCTGGACATCTCCATTAAGTGACCACCCAGGAAACGTTTCCTCCAAAGTACCT
190      210      230
TCATTATGACGAAGAAACCTCTCATCAGCTGTTGTGTGACAAATGTCCTCTGGTACCTA
250      270      290
CCTAAAAACAACACTGTACAGCAAAGTGAAGACCGTGTGGCCCCCTTGCCCTGACCACTA
310      330      350
CTACACAGACAGCTGGCACACCAAGTACAGAGTGTCTATACTGCAGCCCCGTGTGCAAGGA
370      390      410
GCTGCAGTACGTCAAGCAGGAGTGCATTCGCCACCAACCGCGTGTGCGAATGCAAGGA
430      450      470
AGGGCGCTACCTTGAGATAGAGTTCTGCTTGAAACATAGGAGCTGCCCTCTCGGATTGG
490      510      530
AGTGGTGCAGCTGGAACCCAGAGCGAAATACAGTTTGCAAAAGATGTCCAGATGGGTT
550      570      590
CTTCTCAAATGAGACGTCATCTAAAGCACCTGTAGAAAACACACAAATTCAGTGTCTT
610      630      650
TGGTCTCTCTTAACACAGAAAGGAAATGCAACACACGACAAACATATGTTCCGAAACAG
670      690      710
TGAATCAACTCAAAAATGTGGAATAGATGTTACCTGTGTGAGGAGGCATTCTTCAGGTT
730      750      770
TGCTGTTCCTACAAAGTTTACGCCTAAGTGGCTTAGTGTCTTGGTAGACAATTTGCCTGG
790      810      830
CACCAAGTAAACGCAGAGAGTGTAGAGAGGATAAAACGGCAACACAGCTCACAGAACA
850      870      890
GACTTTCAGCTGCTGAAGTTATGGAACATCAAAACAAAGACCAAGATATAGTCAAGAA
910      930      950
GATCATCCAAGATATTGACCTCTGTGAAAAACAGCGTGCAGCGGCACATTGGACATGCTAA
970      990      1010
CCTCACCTTCGAGCAGCTTCGTAGCTTGATGAAAGCTTACCGGAAAGAAAGTGGGAGC
1030      1050      1070
AGAAGACATTGAAAAACAATAAAGGCATGCAAAACCCAGTGACCAGATCCTGAAGCTGCT
1090      1110      1130
CAGTTTGTGGCGAATAAAAAATGGCGACCAAGACACCTTGAAGGGCCTAATGCACGCACT
1150      1170      1190
AAAGCACTCAAGACGTACCACTTTCCTCAAACTGTCACTCAGAGTCTAAAGAAGACCAT
1210      1230      1250
CAGGTTCCTTCACAGCTTCACAATGTACAAATGTATCAGAAGTTATTTTAGAAATGAT
1270      1290      1310
AGGTAACCAAGTCCAATCAGTAAAAATAAGCTGCTTATAACTGGAATGGCCATTGAGCT
1330      1350
GTTTCCTCACAAATTGGCGAGATCCCATGGATGATAA

```

FIGURE 9C

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 ,atosteo.frg M N K W L C C A L L V L L D I I E W T T O E T F P P K Y L H Y D P E T G R Q L L C D K C A P G T Y L 50  
 huosteo.frg M N K L L C C A L V F L D I S I K W T T O E T F P P K Y L H Y D E E T S H Q L L C D K C P P G T Y L 50

muosteo.frg K Q H C T V R R K T L C V P C P D H S Y T D S W H T S D E C V Y C S P V C K E L Q S V K Q E C N R T 100  
 ,atosteo.frg K Q H C T V R R K T L C V P C P D Y S Y T D S W H T S D E C V Y C S P V C K E L Q T V K Q E C N R T 100  
 huosteo.frg K Q H C T A K W K T V C A P C P D H Y Y T D S W H T S D E C L Y C S P V C K E L Q Y V K Q E C N R T 100

muosteo.frg H N R V C E C E E G R Y L E I E F C L K H R S C P P G S G V V Q A G T P E R N T V C K K C P D G F F 150  
 ,atosteo.frg H N R V C E C E E G R Y L E I E F C L K H R S C P P G L G V L Q A G T P E R N T V C K R C P D G F F 150  
 huosteo.frg H N R V C E C K E G R Y L E I E F C L K H R S C P P G F G V V Q A G T P E R N T V C K R C P D G F F 150

muosteo.frg S G E T S S K A P C L K H T N C S T F G L L L I Q K G N A T H D N V C S G N R E A T O K C G I D V T 200  
 ,atosteo.frg S G E T S S K A P C R K H T N C S S L G L L L I Q K G N A T H D N V C S G N R E A T O N C G I D V T 200  
 huosteo.frg S N E T S S K A P C R K H T N C S V F G L L L T Q K G N A T H D N I C S G N S E S T O K C G I D V T 200

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 ,atosteo.frg L C E E A F F R F A V P T K I I P N W L S V L V D S L P G T K V N A E S V E R I K R R H S S O E O T 250  
 huosteo.frg L C E E A F F R F A V P T K F T P N W L S V L V D N L P G T K V N A E S V E R I K R Q H S S O E O T 250

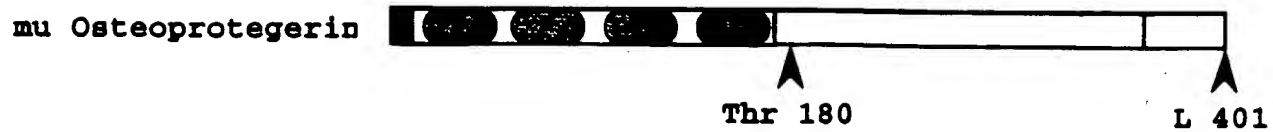
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 ,atosteo.frg F Q L L L K L W K H Q N R D Q E M V K K I I Q D I D L C E S S V Q R H I G H A N L T T E Q L R I L M E 300  
 huosteo.frg F Q L L L K L W K H Q N K D Q D I V K K I I Q D I D L C E N S V Q R H I G H A N L T F E Q L R S L M E 300

muosteo.frg S L P G K K I S P E E I E R T R K T C K S S E Q L L K L L S L W R I K N G D Q D T L K G L M Y A L K 350  
 ,atosteo.frg S L P G K K I S P D E I E R T R K T C K P S E Q L L K L L S L W R I K N G D Q D T L K G L M Y A L K 350  
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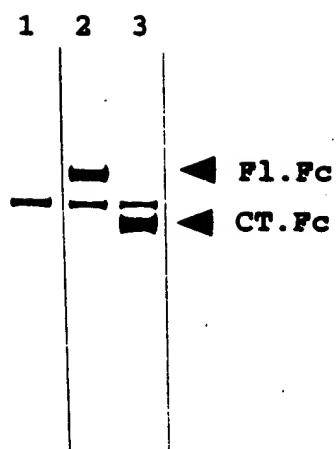
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 ,atosteo.frg H L K A Y H F P K T V T H S L R K T I R F L H S F T M Y R L Y O K L F L E M I G N Q V Q S V K I S C 400  
 huosteo.frg H S K T Y H F P K T V T Q S L K K T I R F L H S F T M Y R L Y O K L F L E M I G N Q V Q S V K I S C 400

muosteo.frg L 401  
 ,atosteo.frg L 401  
 huosteo.frg L 401

Figure 10A



10B



10C

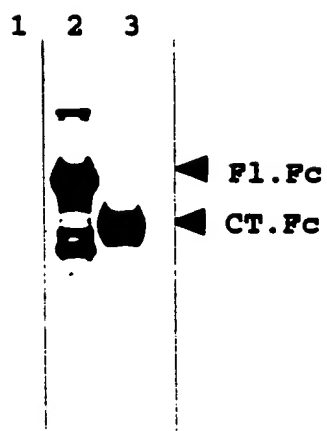




Figure 11A

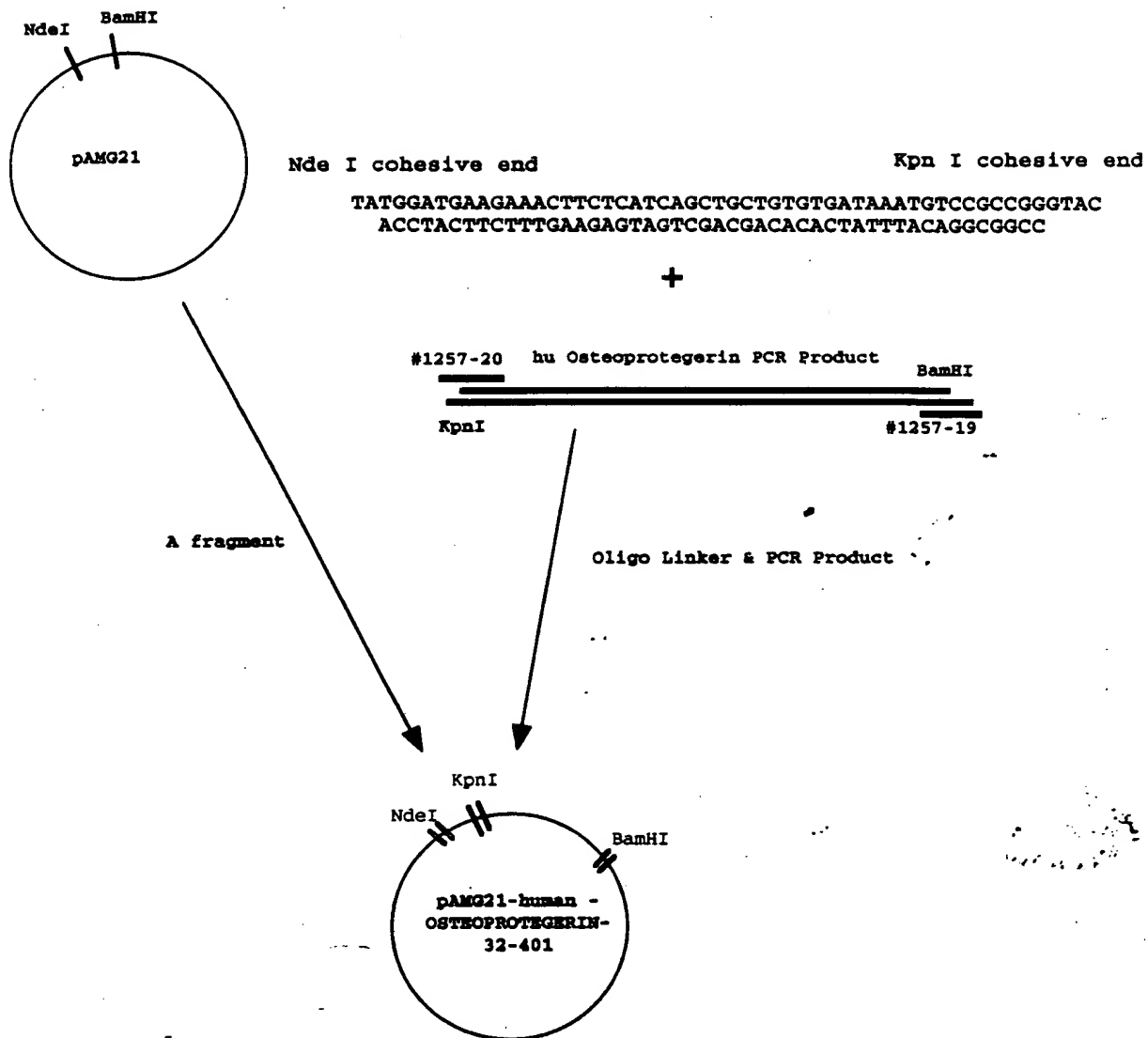
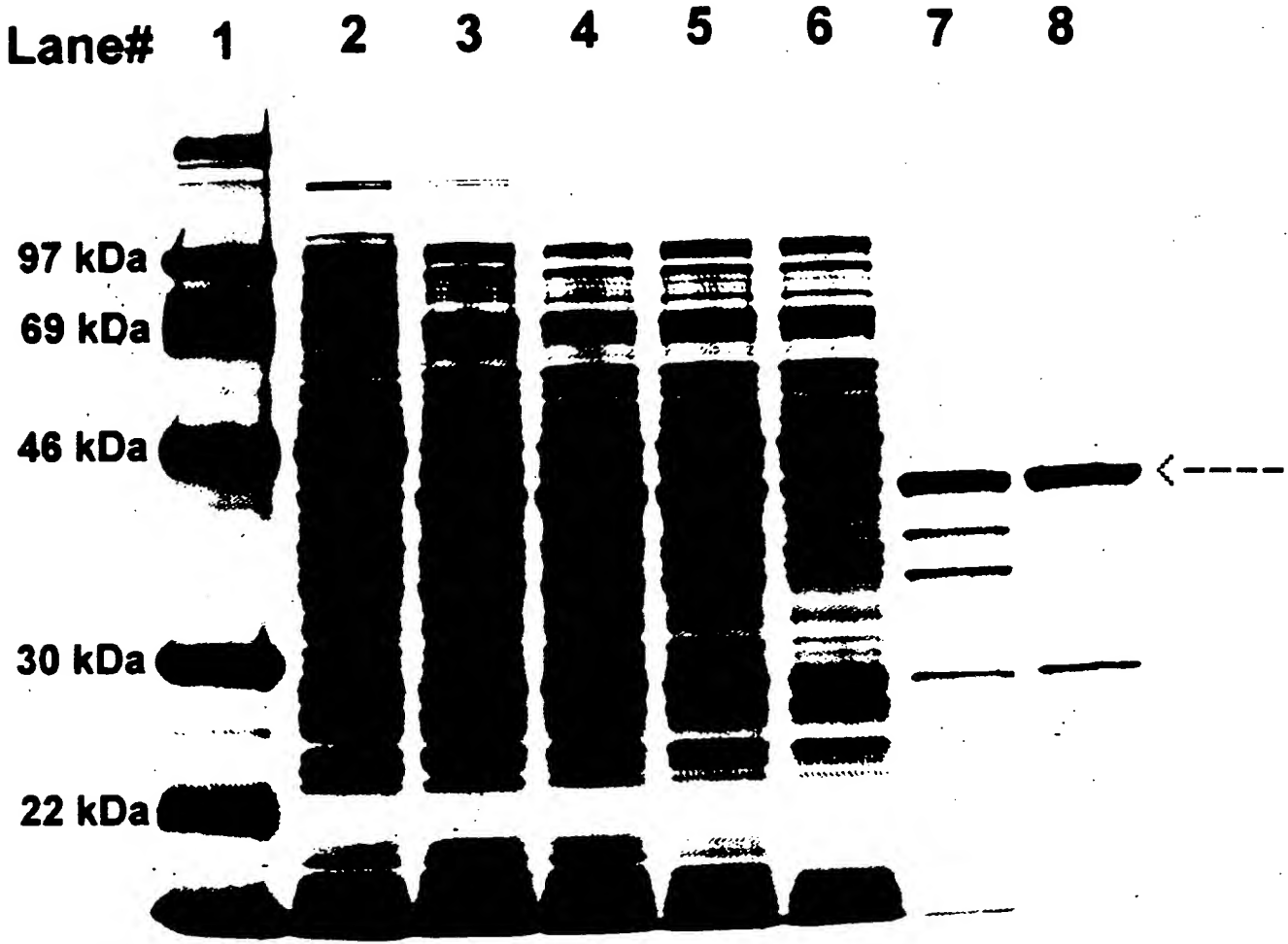


FIGURE 11B



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